

Please type a plus sign (+) inside this box +

PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.



Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	09/803,718
				Filing Date	March 9, 2001
				First Named Inventor	Ravi Narasimhan
				Group Art Unit	2631
				Examiner Name	Not Yet Assigned
Sheet	1	of	1	Attorney Docket Number	047586/P063US/10026081

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				

RECEIVED

Examiner Signature	Date Considered	JAN 07 2002
-----------------------	--------------------	-------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Technology Center 2600

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
J.G. ↓	A	60/190,009, "Space-Time and Space-Frequency Hopping for Capacity Enhancement of Mobile Data Systems, filed March 17, 2001			
	B	09/511,665, "Transmitting Beam Forming in Smart Antenna Array Systems", filed February 23, 2000			
	C	09/229,482, "Practical Space-Time Radio Method for CDMA Communication Capacity Enhancement", filed January 13, 1999			
	D	09/310,567, "Manifold Assisted Channel Estimation and Demodulation for CDMA Systems in fast fading environments", filed May 12, 1999			
	E	09/450,318, "Polarization and Angular Diversity among Antenna Beams", filed November 29, 1999			
	F	Viterbi, CDMA, "Principles of Spread Spectrum Communications", p. 227 (1995)			
	G	Kronstedt and Andersson, "Adaptive Antennas in Frequency Hopping GSM", ICUPU 1998, pp. 325-29			

Examiner Signature	Date Considered	2/1/05
-----------------------	--------------------	--------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached